

Où en sommes-nous, où va le marché?

Rendre le monde plus sûr une appli à la fois

Philippe Courtot

Chairman et CEO - Qualys, Inc.

Nos débuts

Qualys Cloud Platform 1.0

Les années Gestion des vulnérabilités - 1999 à 2011

Énorme résistance à l'adoption du Cloud

Grande échelle et industrialisation

Première phase de consolidation des « best of breed » solutions



Où en sommesnous aujourd'hui?

Qualys Cloud Platform 2.0

Suite intégrée de solutions de sécurité et de conformité - 2012 à 2018

Ré-architecture majeure de notre back-end

Consolidation des activités OPS, DevOps, Support Client et Product management et gros Investissement en Inde

Extension de nos solutions+ 10 applis et premièresacquisitions technologiques



Où allons-nous?

Qualys Cloud Platform 3.0

Tableau de bord unique avec vue unifiée des ressources IT, de la sécurité & de la conformité - Arrivée sur le marché de l'OT et de l'IoT -2019 à 2021 Nouvelle solution pour l'inventaire en continue des actifs IT globaux

Encore plus de solutions intégrées couvrant l'ensemble des actifs globaux

Une nouvelle approche pour gérer et répondre aux incidents



Où va le marché?

Consolidation majeure

L'ère du Cloud est inéluctable et arrive au galop - 2019 à 2021

L'irrésistible ascension des plateformes Cloud

Systèmes informatiques en pleine évolution

De la protection des données à la cyber-résilience

Intégrer la sécurité et non plus la rajouter

Consolidation accélérée du marché





Merci de votre attention

Philippe Courtot pcourtot@qualys.com



Regaining Our Lost Visibility

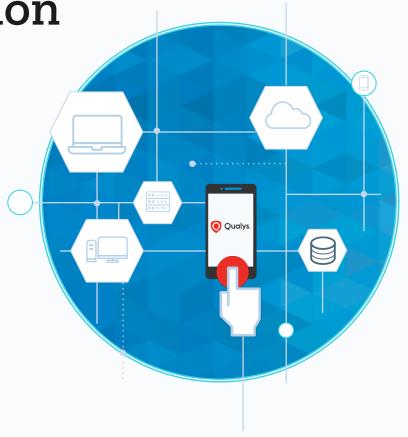
Sumedh Thakar Chief Product Officer, Qualys, Inc.



Digital Transformation

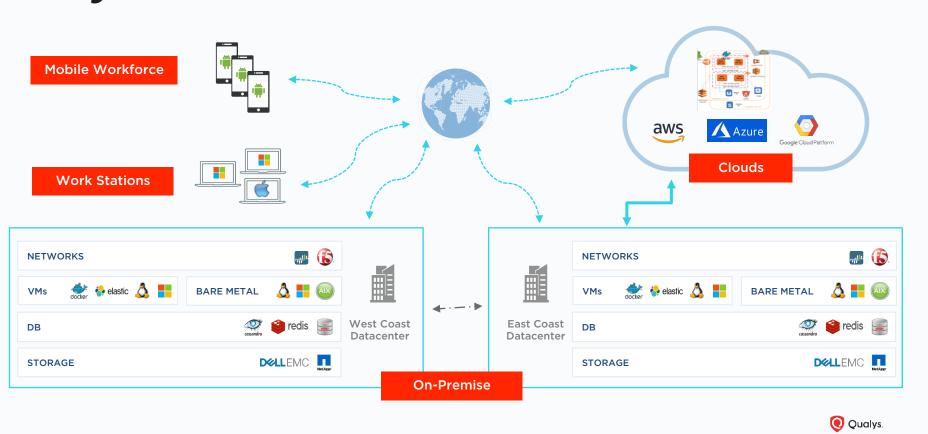
Holistic Transformation of Business to Digital

Cloud, Containers, IaaS, PaaS, OT, IIoT, IoT, Mobility, Web apps, APIs, Mobile Apps





Hybrid Cloud Overview Architecture



Containers

Real game changer

Hypervisor disappearing, bare metal is back

Kubernetes Infrastructure-as-code

Container-as-a-Service AWS Fargate

AWS Lambda function-as-a-service, serverless!

Kubefed?

"Priceline" for Containers?



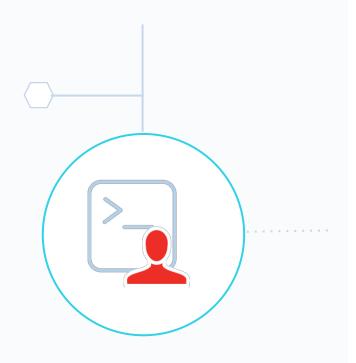


DevOps

This is real and highly contagious

Developer decides how infrastructure runs in production

Speeds up significantly how fast code goes to production





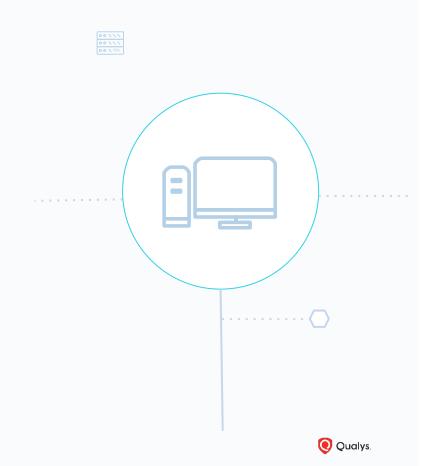
On-Prem

Shrinking Datacenter Footprint

Increasing OT & IIoT

Corp IT - more distributed & mobile

More IoT!



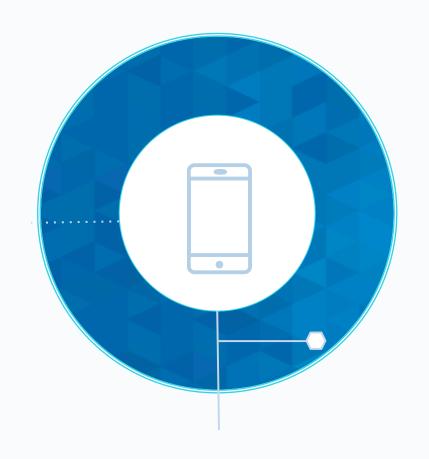
Enterprise Mobility != BYoD

Enterprise owned handheld devices

Indispensable to modern business

Running apps handling sensitive business & consumer data

Mobile!





Web Apps & APIs

Web Apps for the humans

APIs for the inhumans

Wide window into all your data





SaaS

More aaS everywhere

No infrastructure to manage

No Applications to code or manage



SaaS









IBM PC AT



November 13, 1984

PC Magazine about IBM PC AT

"The AT provides the first real system for allowing executives to sleep at night:

A hard-to-duplicate 'tubular' key locks all but key holders out of the system"







34 years later

No magic key = No sleep at night!

Same challenges x 10

No visibility across global hybrid infrastructure

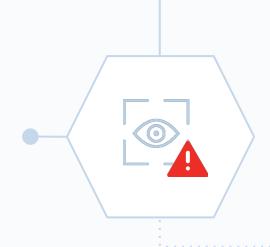
Still need to do Vulnerability & Configuration management

Still need to monitor integrity of systems(?)

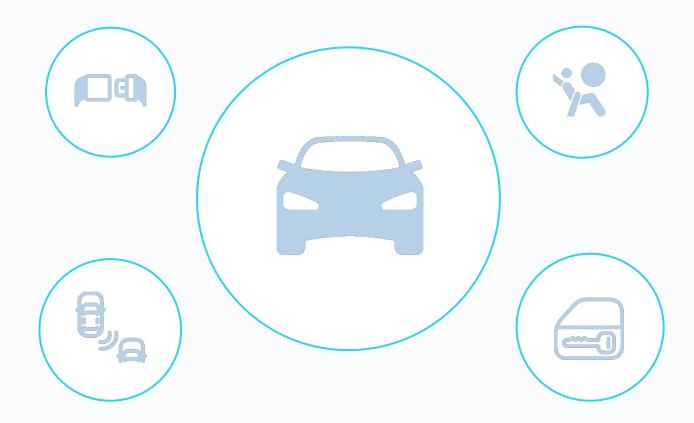
More data incoming into "SIEM" deployments

Basically no visibility to respond

Compliance demands on new infrastructure









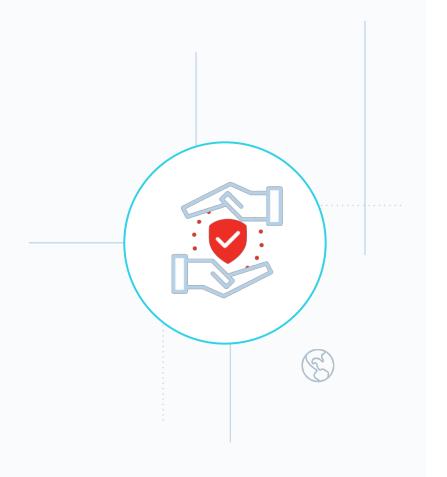
Future of Security

Transparent Orchestration

Built-in Automation the only real solution

Starts in DevOps

New generation of Security Analytics platforms





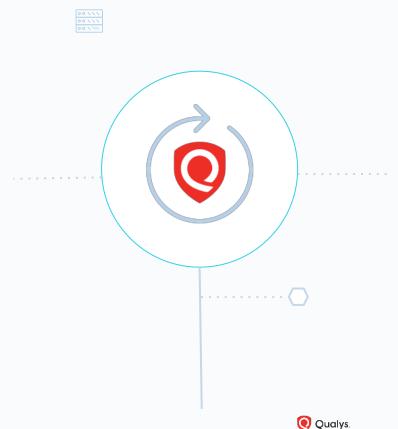


Qualys Platform Approach

Embracing our own Digital Transformation

Massive expansion of backend for visibility - 620 Billion security datapoints indexed

Comprehensive coverage of sensors - scanners, agents, cloud connectors, container sensors, passive sniffers and mobile agents





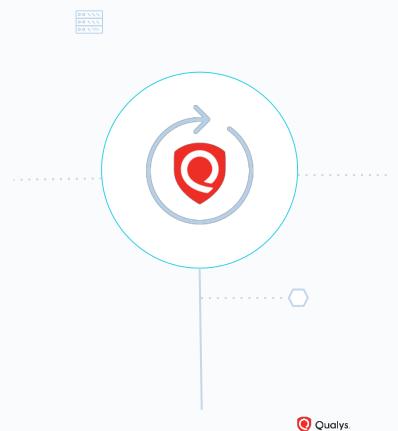
Qualys Platform Approach

Extending solutions into remediation & response

Building dedicated Data science team

Rapid expansion of R&D org

Key technology acquisitions & Investments



Acquisitions & Investments

Nevis Passive Scanning & Secure Access Control

Netwatcher Event Correlation Platform

1Mobility Enterprise Mobility

Layered Insight Built-in Runtime Container Security

42Crunch Investment API Security

Frog 1

Frog 2



Qualys Cloud Apps

ASSET MANAGEMENT



Maintain full, instant visibility of all your global IT assets



Synchronize asset information from Qualys into ServiceNow CMDB

ci Cloud Inventory

Inventory of all your cloud assets across AWS, Azure, GCP and others

CRI Certificate Inventory

Inventory of TLS/SSL digital certificates on a global scale

IT SECURITY

Vulnerability Management

Continuously detect and protect against attacks, anytime, anywhere

Container Security

Discover, track, and continuously protect containers

Threat Protection

Pinpoint your most critical threats and prioritize patching

CRA Certificate Assessment

Assess all your digital certificates for TLS/ SSL vulnerabilities Continuous Monitoring

Alerts you in real time about network irregularities

Indication of Compromise

Continuously monitor endpoints to detect suspicious activity

COMPLIANCE MONITORING

PC Policy Compliance

Assess security configurations of IT systems throughout your network

Cloud Security Assessment

Get full visibility and control across all public cloud instances

PCI Compliance

Automate, simplify and attain PCI compliance quickly

Security Assessment Questionnaire

Minimize the risk of doing business with vendors and other third parties

File Integrity Monitoring

Log and track file changes across global IT systems

Security Configuration Assessment

Automate configuration assessment of global IT assets

WEB APPLICATION SECURITY

Web Application Scanning

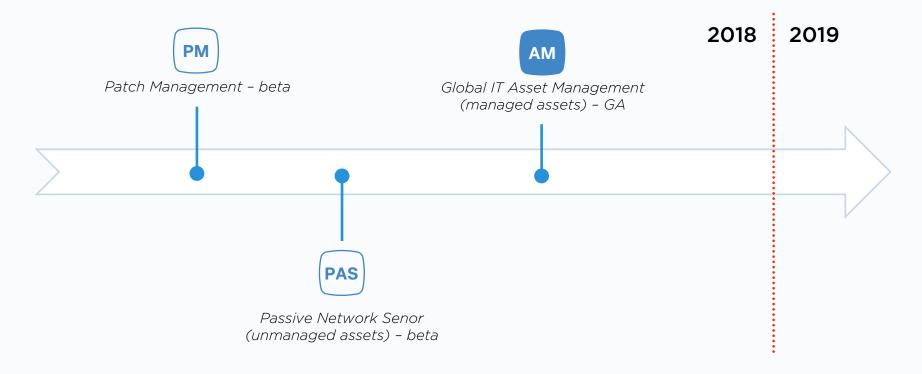
Secure web applications with end-to-end protection

WAF Web Application Firewall

Block attacks and virtually patch web application vulnerabilities



Q4 2018 – more apps to come



2019 – even more apps to come!

Secure Enterprise Mobility

Secure Access Control

API Security

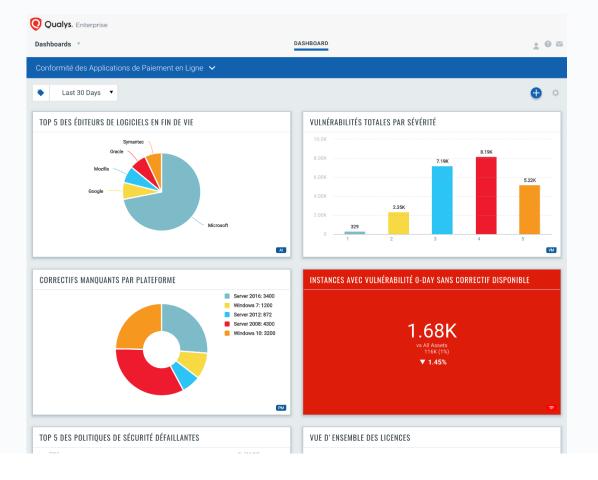
Software Composition Analysis

Breach and Attack Simulation

Security Data Lake & Correlation Platform

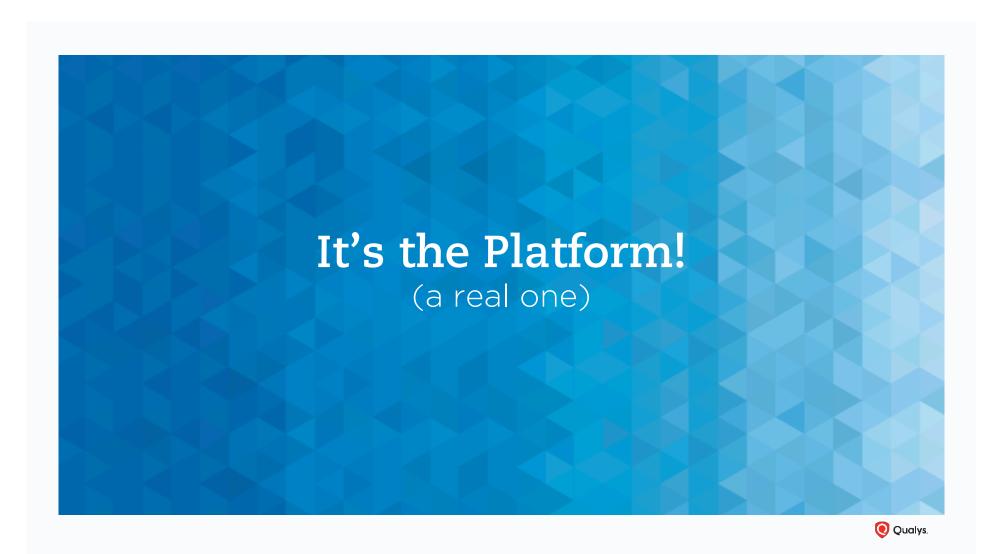


Unified Dashboards











Looking Under the Hood: What Makes Our Cloud Platform so Scalable and Powerful



Cloud Platform Environment Security at scale on hybrid clouds

15+ products providing comprehensive suite of security solutions

10,300+ customers

7 shared cloud platforms across North America, Europe & Asia

70+ private clouds platforms deployed globally... on-prem, AWS, Azure, GCP

16+ PB storage and 16,000 cores





Cloud Platform Highlights

1+ trillion security events annually

3+ billion scans annually

2.5+ billion messages daily across Kafka clusters

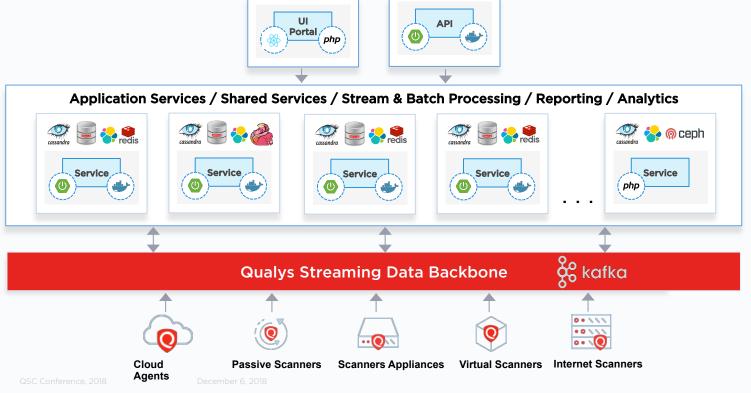
620+ billion data points indexed in our Elasticsearch clusters

Unprecedented 2-second visibility





Qualys Cloud Platform Sensors, Data Platform, Microservices, DevOps



Qualys Sensor Platform Scalable, self-updating & centrally managed



Physical

Legacy data centers

Corporate infrastructure

Continuous security and compliance scanning



Virtual

Private cloud infrastructure

Virtualized Infrastructure

Continuous security and compliance scanning



Cloud/Container

Commercial laaS & PaaS clouds

Pre-certified in market place

Fully automated with API orchestration

Continuous security and compliance scanning



Cloud Agents

Light weight, multiplatform

On premise, elastic cloud & endpoints

Real-time data collection

Continuous evaluation on platform for security and compliance



Passive

Passively sniff on network

Real-time device discovery & identification

Identification of APT network traffic

Extract malware files from network for analysis



ΑP

Integration with Threat Intel feeds

CMDB Integration

Log connectors

Data Platform-as-a-Service

Right database for the right use case

- Highly scalable architecture
- Predictable performance at scale
- Distributed and fault-tolerant
- Multi-datacenter support
- Open-source
- Commodity hardware











elastic







Data Platform-as-a-Service



Kafka

Asynchronous, event-driven architecture

Foundation for Qualys Cloud Platform

Over 2.5 billion messages per day



Elasticsearch

Search for anything

Over 620 billion data points indexed

Estimating about 1 trillion data points be year end



Cassandra

Low latency storage

Source of truth for data across multiple products



Redis

In-memory cache

Improved system performance for frequently accessed data



Ceph

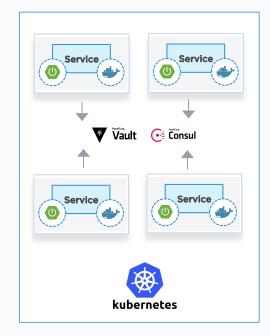
Object storage

Moving Oracle and in-house blob storage into Ceph

Microservices & Cloud Native Architectures Reduce risk and ship faster

Change how we design and build applications and services

- Monoliths to microservices
- Well defined APIs
- Packaged in containers
- Deployed on elastic infrastructure
- 12-Factor apps
- CI/CD, Service Registry, Config Servers





DevOps – Increased Efficiency

Goal is to make software delivery vastly more efficient

Supporting about 80 shared and private cloud deployments















Automation - Infrastructure as Code

Treat systems running your software as if they themselves are software

Automate

- Infra provisioning
- Configuration management
- Deployments...







ANSIBLE







....all using code



Monitoring Systems - Observability

Centrally monitor across all platforms using a single-pane view

End-to-end monitoring using

- Time series metrics
- Distributed tracing
- Log aggregation & analytics
- Alerting





Integrated Security - DevSecOps

Built-in security practices across the DevOps lifecycle

Qualys-on-Qualys

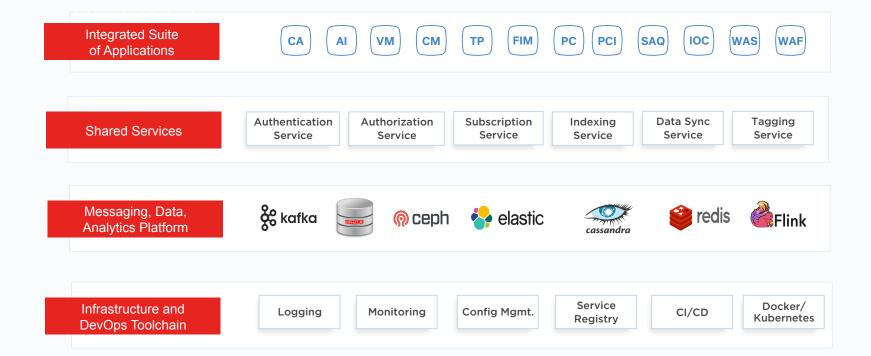
- Manage vulnerabilities
- Comply with policies
- Secure and shield web apps
- Validate file integrity
- Monitor systems







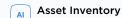
Qualys Cloud Platform





Qualys Cloud Applications

ASSET MANAGEMENT



Maintain full, instant visibility of all your global IT assets



Synchronize asset information from Qualys into ServiceNow CMDB

Cloud Inventory

Inventory of all your cloud assets across AWS, Azure, GCP and others

Certificate CRI

 $\begin{picture}(100,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){10$

IT SECURITY

Vulnerability Management

Continuously detect and protect against attacks, anytime, anywhere

Container Security

Discover, track, and continuously protect

Threat Protection

Pinpoint your most critical threats and prioritize patching

Certificate Assessment

Assess all your digital certificates for TLS/ SSL vulnerabilities

Continuous Monitoring

Alerts you in real time about network irregularities

Patch Management (Beta)

Select, manage, and deploy patches to remediate vulnerabilities

Indication of Compromise

Continuously monitor endpoints to detect suspicious activity

COMPLIANCE MONITORING

Policy Compliance

Assess security configurations of IT systems throughout your network

Cloud Security Assessment and control across all public cloud instances

PCI **PCI Compliance**

Automate, simplify and attain PCI compliance quickly

Security Assessment Questionnaire doing business with vendors and other third parties

File Integrity Monitoring

Log and track file changes across global IT

Security Configuration

Assessment uration assessment of global IT assets

WEB APPLICATION SECURITY

Web Application

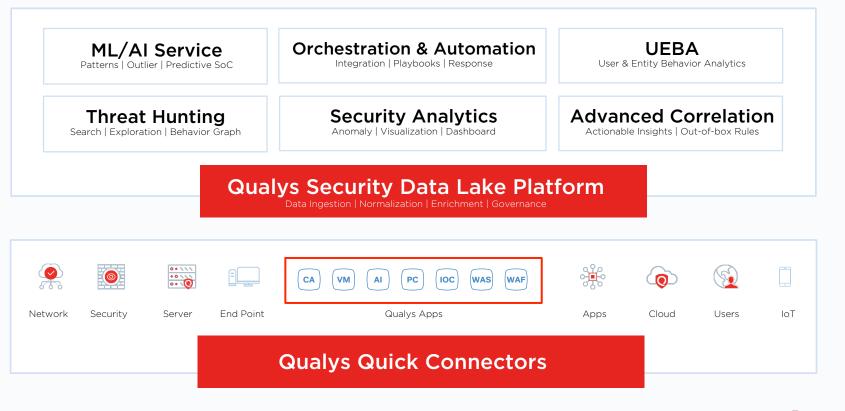
Scanning pplications with end-to-end protection

Web Application

Firewall and virtually patch web application vulnerabilities



Advanced Correlation & Analytics





Thank You

Sumedh Thakar sthakar@qualys.com

